

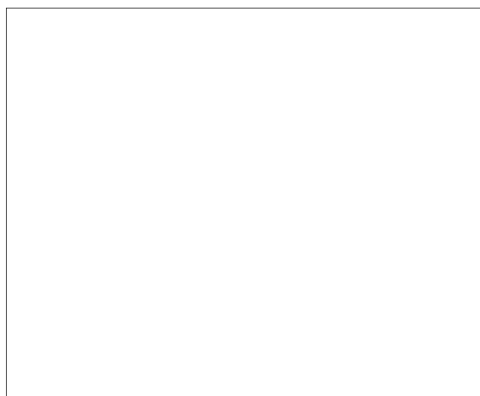
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12 August 1955

MEMORANDUM FOR THE RECORD

SUBJECT: Intra-Divisional Meeting of the Hole Drilling Committee

1. On 3 August, the Third Monthly Meeting of the Hole Drilling Committee was held. Those present were:



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2. [redacted] stated that his Division had received three proposals which were being forwarded to ASD for their comments. Two of these proposals were from [redacted]. One dealt with the silent drilling of holes in walls and the other with the development of a pipe-pushing device. In the hole drilling proposal [redacted] proposed to concentrate upon silencing the power supply and the rotation of the driving elements. The third proposal was from the [redacted] in which they proposed investigation of the following: supersonic drills; the use of high velocity jet of liquid or slurry containing abrasive particles; the use of high velocities of air carrying abrasive particles; drilling with a rubber type of bit impregnated with the commercial diamond particles; and the possible use of thermite or some other extremely high velocities of air carrying abrasive particles; drilling with a rubber type of bit impregnated with the commercial diamond particles; and the possible use of thermite or some other extremely high temperature source to disintegrate the material.

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3. [redacted] suggested the possibility of using a chain-type saw for cutting mortar joints.

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4. [redacted] informed the Committee that the National Bureau of Standards would demonstrate their core-drilling technique upon request.

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5. [] elaborated upon the requirements of the Hole-Drilling Program and said that we should first concentrate upon finding a quiet way to drill holes and then, if necessary, miniaturize the equipment.

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6. [] described a small motor being used [] and suggested that efforts be made to improve or at least duplicate such a motor and forward it [] for testing. [] agreed to look into this. [] also suggested the following approach to the problem: first, catalog the best, readily-available, methods and equipment for drilling with the aim of adapting them to our immediate problems. This would take the form of finding the best drills, motors, and lubricants. The second approach would be a long-range program whereby chemical methods as well as unique drilling methods would be developed. [] also proposed that a high rpm motor used with a millimeter sized drill be obtained for use in penetrating the inside plaster coating of the target wall. [] also agreed to look into this.

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7. ED stated that [] was in a position to provide testing facilities and that specifications for construction of test walls are being prepared.

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8. APD has received a proposal from [] and this proposal is being passed on to ED for their comments and coordination. In general, the proposal appears to be too all-inclusive and not sufficiently specific to warrant acceptance.

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9. [] reported on the progress of a neutron back-scattering gauge for use in determining wall thickness. This work is being done by the [] Arrangements have been made with the Atomic Energy Commission for obtaining highly concentrated neutron sources. [] stated that an electrical method of producing neutrons had been made knowledgeable to him by the Bureau of Standards. Both methods of obtaining neutrons will be investigated. CD is also waiting for clearance approval to be granted to several cement-testing laboratories.

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10. The next meeting of the Committee will be held on Wednesday, September 7th.

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